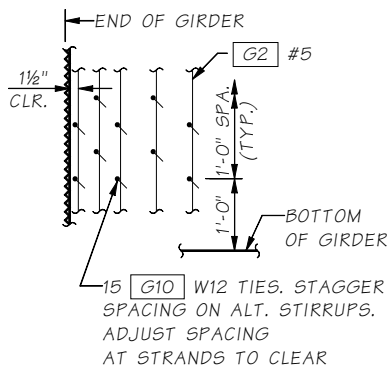
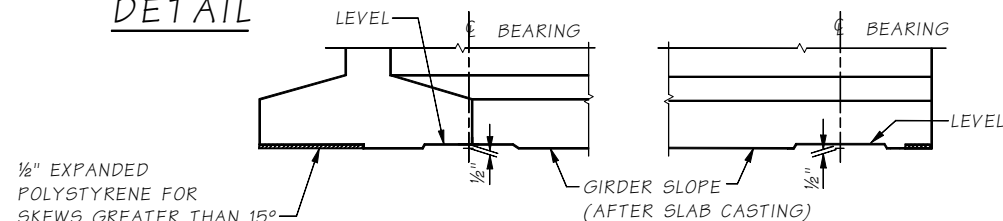


### STRAND PATTERN AT GIRDER END

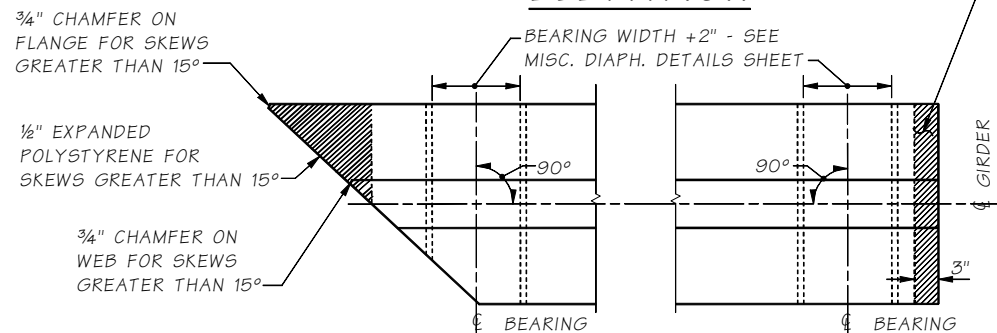
HARPED STRAND LOCATION SEQUENCE SHALL BE AS SHOWN ①, ② ETC.



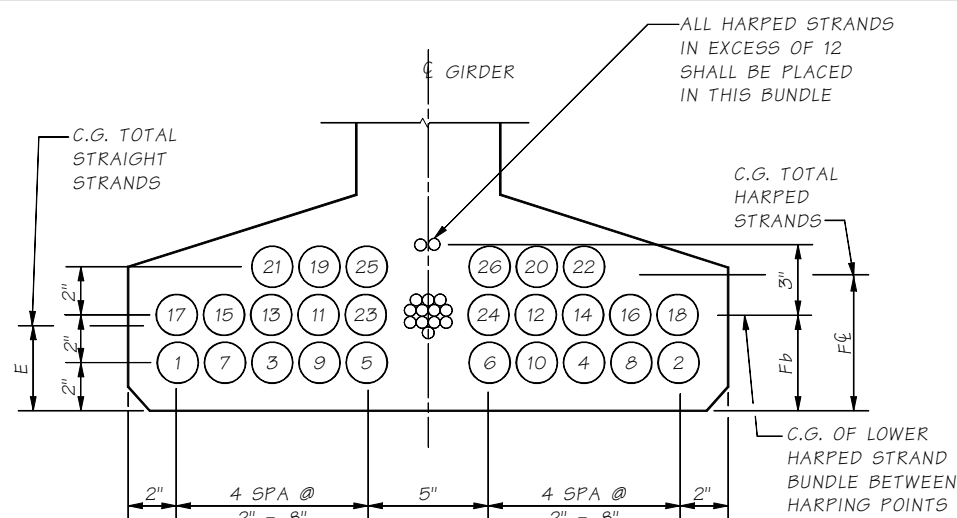
### TIE SPACING DETAIL



### ELEVATION

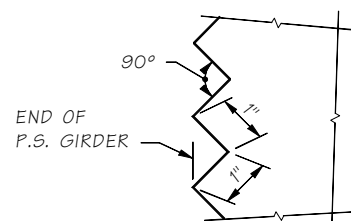


### PLAN - BEARING RECESS & BOTTOM FLANGE SPALL PROTECTION



### STRAND PATTERN AT $\phi$ SPAN

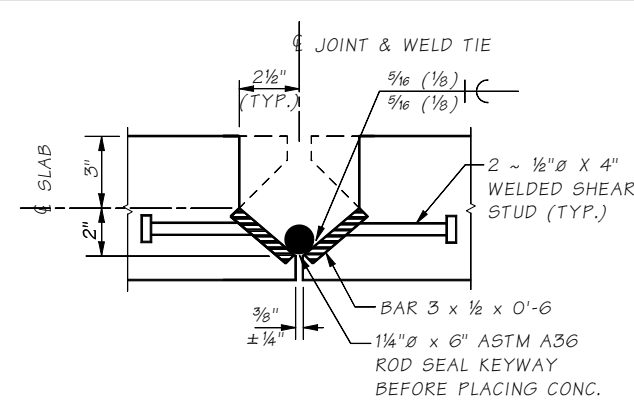
STRAND LOCATION SEQUENCE SHALL BE AS SHOWN ①, ② ETC.



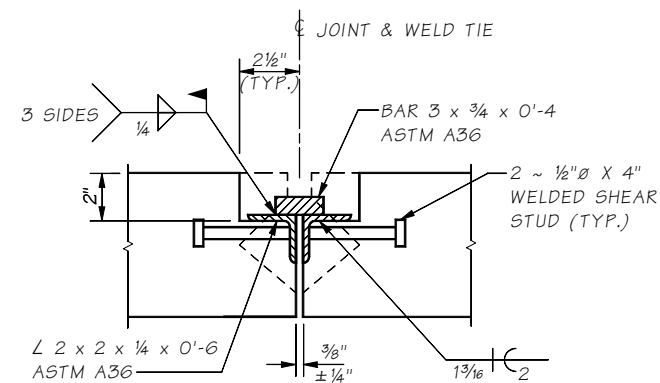
### SAWTEETH DETAILS

SAWTEETH ARE FULL WIDTH - USE SAWTEETH KEYS FROM BOTTOM OF BOTTOM FLANGE TO BOTTOM OF LOWEST HARPED STRAND

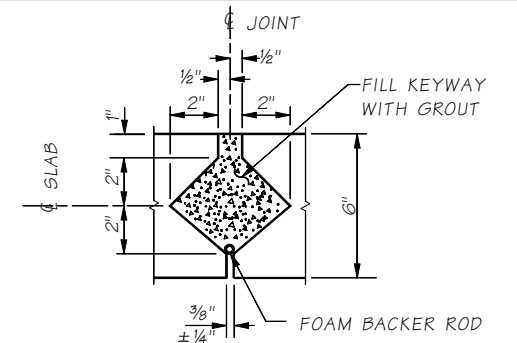
\*\* THICKEN FLANGE TO COMPENSATE FOR CAMBER DUE TO PRESTRESS. FLANGE THICKNESS SHOWN IS @  $\phi$  OF SPAN. FOR FLANGE THICKNESS ALONG GIRDER FLANGE THICKENING DETAILS ON BR. SHEET   GIRDERS WITH ULTIMATE CAMBER VALUES SMALLER THAN 3/4" ARE EXEMPT FROM THIS REQUIREMENT. FLANGE THICKENING SHALL BE USED ONLY IF NEEDED BY DESIGN.



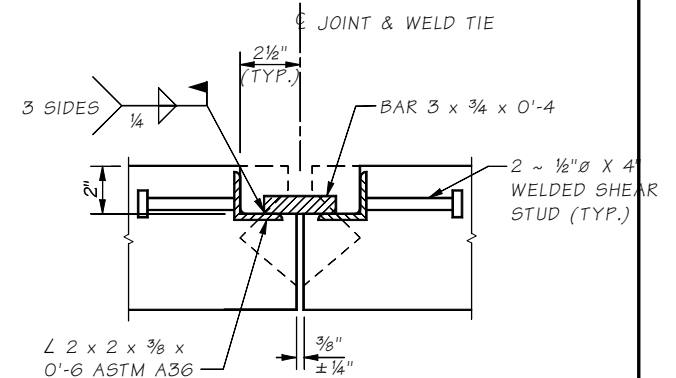
### SECTION B WELD TIE ALTERNATE #1



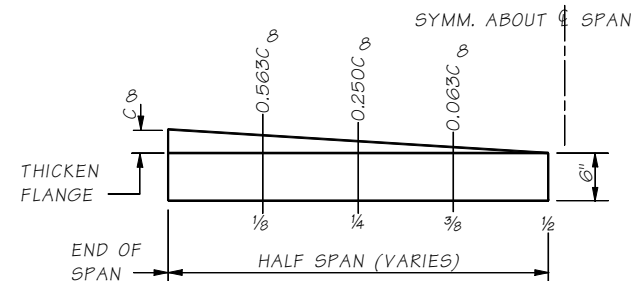
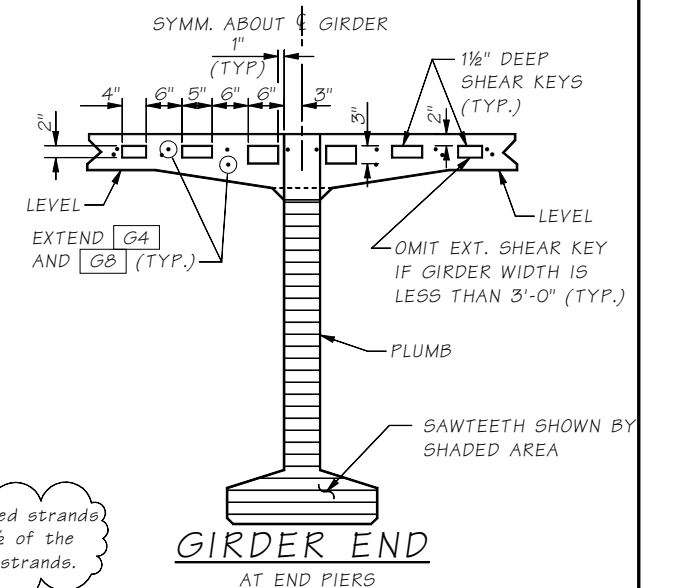
### SECTION B WELD TIE ALTERNATE #2



### SECTION A KEYWAY



### SECTION B WELD TIE ALTERNATE #3




### GIRDER FLANGE THICKENING GIRDER SCHEDULE

\*\* The number of harped strands should not exceed 1/2 of the number of straight strands.

NOTE: Dimensions shall be shown in Imperial units to the nearest 1/8th inch.

SPAN	GIRDER	END 1	END 2	S	LS	$\theta_1$	$\theta_2$	$P_1$	$P_2$	PLAN LENGTH (ALONG GIRDER GRADE)	MIN. CONC. COMPR. STRENGTH		HARPED *		STRAIGHT		LOCATION OF C.G. STRANDS				CAMBER (IN)		
											@ FINAL F'C KSI	@ RELEASE F'C KSI	NO. OF STRANDS	JACKING FORCE (KIPS)	NO. OF STRANDS	JACKING FORCE (KIPS)	E	F $\phi$	F $b$	F $o$	RELEASE $\Delta$	50 $\Delta$	2000 $\Delta$
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Bridge Design Engr.	M:\STANDARDS\Girders\Deck Bulb Tee\W65DG2.man	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor		10	WASH.			
Designed By						
Checked By						
Detailed By						
Bridge Projects Engr.						
Prelim. Plan By						
Architect/Specialist	DATE	REVISION	BY	APPD		

BRIDGE AND STRUCTURES OFFICE	 <b>Washington State Department of Transportation</b>	STANDARD PRESTRESSED CONCRETE GIRDERS	BRIDGE SHEET NO.
		W65DG DECK BULB TEE GIRDER DETAILS 2 OF 2	SHEET  OF  SHEETS